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Rossbach, J., E.L. Saldin, E.A. Schneidmiller and M.V. Yurkov, Fundamental limitations of an X-ray FEL operation due to quantum fluctuations of undulator radiation . . . 393 (1997) 152
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Shvets, G. and J.S. Wurtele, Temporal and spectral structure of an FEL oscillator during start-up . . . 393 (1997) 273
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Small, D.W., R.K. Wong, W.B. Colson and R.L. Armstead, Free electron laser with short Rayleigh length . . . 393 (1997) 262
Smith, T.I., P. Haar and H.A. Schwettman, Pulse stacking in the SCA/FEL external cavity . . . 393 (1997) 245
Sobajima, M., K. Yoshikawa, M. Ohnishi, Y. Yamamoto, K. Masuda, H. Toku and T. Nakamura, Quantitative study of optical guiding by three-dimensional simulation . . . 393 (1997) 280
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Tatchyn, R. and T. Cremer, Design considerations for a dual-etalon seed-light pre-filter for high-energy LCLS applications . . . 393 (1997) 110
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Tomimasu, T., What limits the wavelength of an FEL? Challenge at the shortest wavelength lasing limit of linac-based FELs using the FELI linac with a thermionic gun . . . 393 (1997) 230
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Tsunawaki, Y., N. Ohigashi, M. Kusaba, K. Mima, M. Fujita, K. Imasaki, S.-I. Kuruma, S. Nakai and C. Yamanaka, Magnetic field analysis of a hybrid helical microwiggler . . . 393 (1997) 389
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Varfolomeev, A.A., A new crossed undulator scheme for generating radiation polarized in wide frequency range . . . 393 (1997) 398
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Yakover, I.M., Y. Pinhasi and A. Gover, Spontaneous emission in waveguide free-electron masers near waveguide cutoff . . . 393 (1997) 316
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